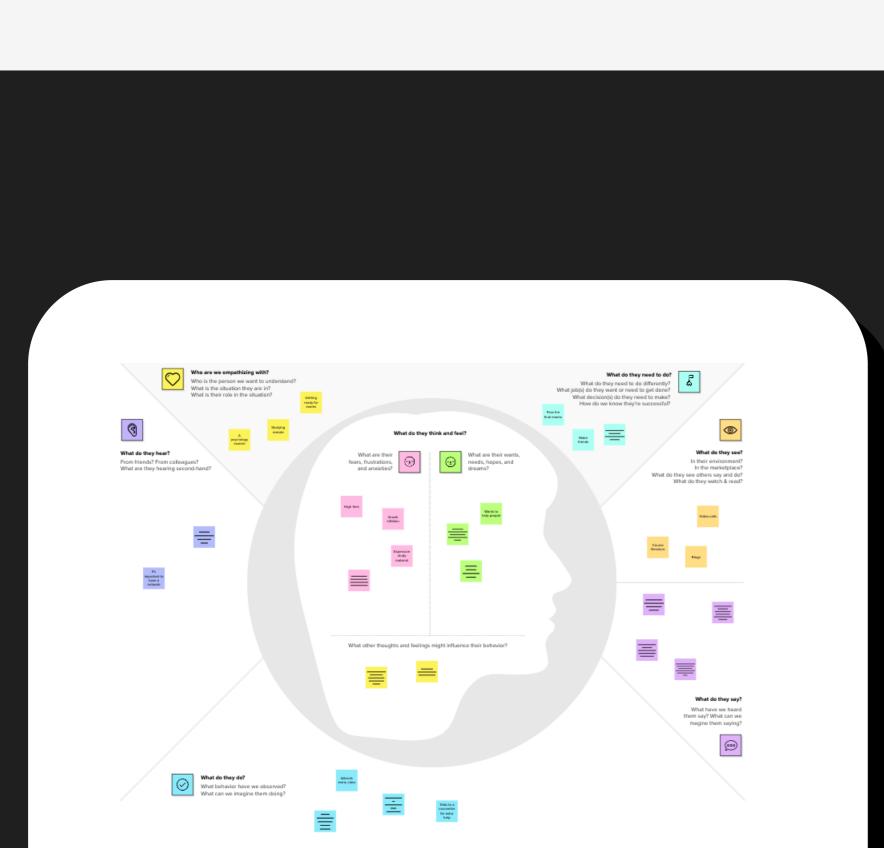


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A Reliable Energy Consumption Analysis System For Energy-Efficient Appliances

Originally created by Dave Gray at



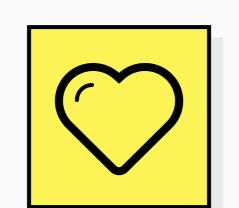


Need some inspiration? See a finished version of this template to kickstart your work.



Reliable Energy Consumption Analysis System

This project focuses on developing a reliable system to analyze and predict energy consumption patterns in residential buildings, with a specific focus on energyefficient appliances. It employs machine learning algorithms to collect and process data related to energy usage, considering variables like weather conditions, time of day, and occupancy. The ultimate goal is to provide homeowners and utility companies with accurate predictions and insights to manage energy usage efficiently, reduce waste, and cut costs, contributing to greater energy sustainability.



WHO are we empathizing with?

Who is the person we want to understand? What is the situation they are in? What is their role in the situation?



HEAR?

Discussion on

skyrocketing home

electricity bills and

climate change due

to irresponsible

energy consumption

and wastage.

Colleagues have

been talking

about energy-

saving tips and

smart home

technology.

What do they

What are they hearing friends say?

What are they hearing from influencers?

What are they hearing from colleagues?

Influencers on social

media are discussing

the benefits of energy-

efficient appliances

and promoting

responsible consumer

behaviour.

What do they

What do they do today?

What behavior have we observed?

What can we imagine them doing?

DO?

Homes and businesses have the role of making responsible choices that ensure environmental as well as ecoomic benefits in the lon run

Homeowners who efficiently want to manage energy consumption, reduce costs, and promote sustainability

Utility companies

aiming to optimise energy distribution, reduce peak demand, and enhance grid efficiency

GOAL

The decision to invest in smart appliances, home automation systems, and

implementing energysaving practices. Success will be evident when they see reduced energy bills and a more sustainable lifestyle.

They might adopt

smart appliances,

analyze energy

data, and adjust

usage patterns for

efficiency.

What do they need to DO?

What do they need to do differently? What job(s) do they want or need to get done? What decision(s) do they need to make? How will we know they were successful?

> They need to shift from manual energy management to automated systems and adopt energyefficient appliances. They want to efficiently manage their household energy consumption and

> > reduce utility costs.

They see others discussing energy-saving tips and using energy

They're watching

documentaries on

energy conservation

and reading articles

In their homes, they consumption

see various appliances and devices consuming unnecessary energy.

They see a growing

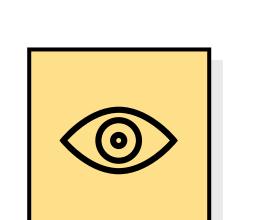
market for energy-

efficient appliances

and home

automation

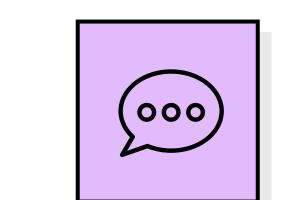
solutions.



SEE?

about sustainable living. What do they

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?



People have mentioned concerns about rising energy costs and environmental impact.

What do they SAY?

What have we heard them say? What can we imagine them saying?

They might express enthusiasm about saving money and reducing their carbon footprint.

What do they THINK and FEEL?

PAINS

What are their fears, frustrations, and anxieties?

> High energy bills, Energy waste, Environmental impact.

> > Unpredictable energy bills, Lack of insights into energy consumption patterns, Difficulty in

> > > reducing their

carbon footprint.

Cost-effective energyefficient solutions, Realtime data on energy usage, Contributing to environmental sustainability, Achieving energy independence.

GAINS

Lower utility

costs, Efficient

appliances,

Sustainable

living, A greener

future.

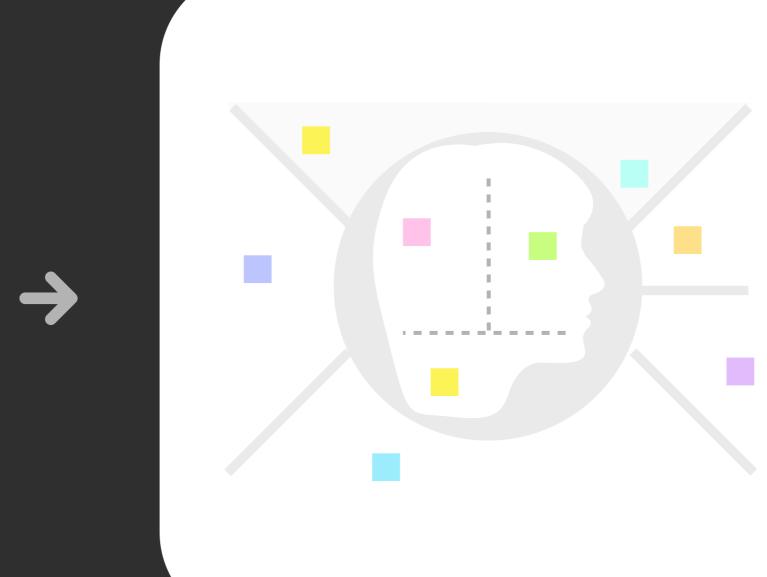
What are their wants,

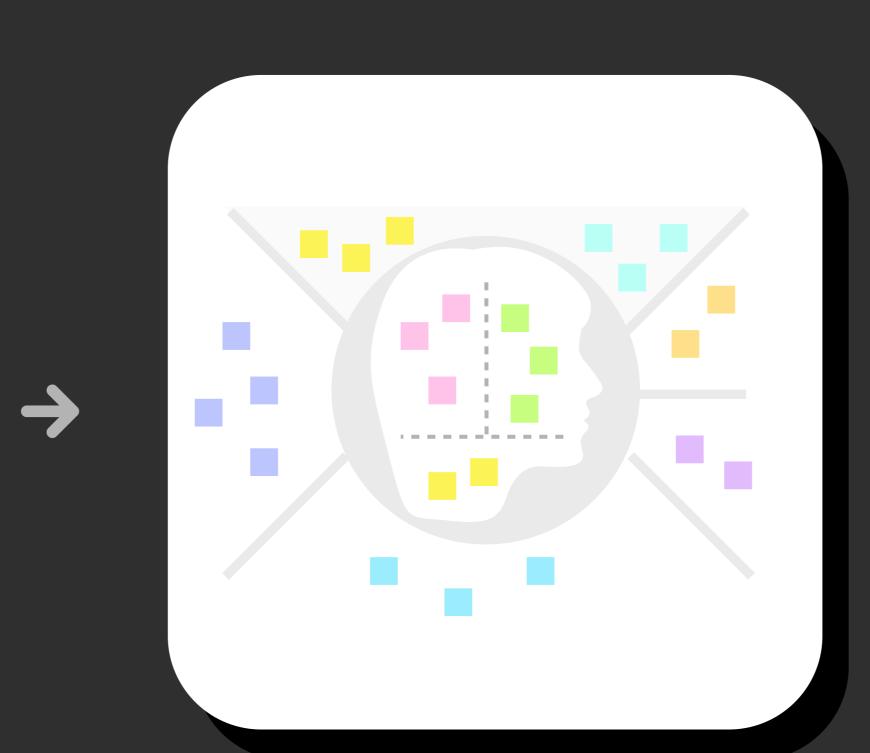
needs, hopes, and dreams?

People currently manually monitor energy consumption or use basic timers for appliances.

We've noticed that some individuals make an effort to turn off lights and appliances when not in use.







What do they SAY and DO?

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